

BMS-136WL

1-Port Wireless Serial Device Server



Features

High Performance Design

- ✓ Connects RS-232/422/485 devices to TCP/IP network
- ✓ Provides 1 serial port supporting RS-232/422/485
- ✓ Supports 10/100 Mbps Ethernet
- ✓ Supports 921 Kbps serial data rate
- ✓ Supports TCP/Server, TCP/Client, UDP and paired connection mode with heart-beat checking mechanism
- ✓ Supports Virtual COM driver included for backward compatibility
- ✓ Supports Web/Telnet consoles for device configuration
- ✓ Supports Windows utility for device configuration and management
- ✓ Built-in standard High-gain 4dBi antenna

Robust Industrial Design

- ✓ Robust metal case
- ✓ Supports operating temperature 0 to 60°C
- ✓ DIN-Rail installation

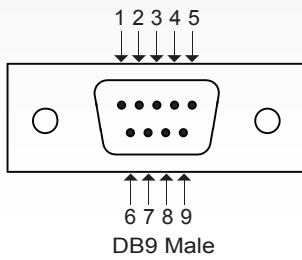
Reliable Power Design

- ✓ 15KV ESD protection for serial port
- ✓ Wide power Input from 9~15 VDC
- ✓ External power adapter available different power plug standards

Overview

The Wireless Industrial Serial Server BMS-136WL is a gateway between TCP/IP via wireless and RS-232/RS-485/RS-422 communications. BMS-136WL makes it easy to network-enable serial devices to a wireless IEEE 802.11b or 802.11g infrastructures and allows almost any serial device to be connected to a new or existing wireless network. BMS-136WL requires few cabling infrastructure and is ideal for applications that involves difficult or complicated wiring situation. By encapsulating serial data and transporting it over Wireless LAN or for security requirements by WEP or WPA2-PSK encryption, BMS-136WL offers full-duplex, bi-directional data transmission transparent between serial port and Wireless LAN. In industrial and manufacturing automation fields, BMS-136WL is used for field devices to connect Wireless LAN through TCP/IP protocol directly. It is also specially designed for conjunction with PLC, HMI, Barcode Scanners, Data Terminals, Electronic Kanbans, Shop Floor Control Systems, and sensors etc. BMS-136WL provides a simple integrated configuration process and its embedded 802.11b/g wireless radio offers superior power and receives sensitivity.

Pin Assignments



DB9 M Male	RS-232	RS-422	RS-485
1	DCD	RX-	---
2	RXD	RX+	---
3	TXD	TX+	Data+
4	DTR	TX-	Data-
5	GND	GND	---
6	DSR	CTS-	---
7	RTS	CTS+	---
8	CTS	RTS+	---
9	RI	RTS-	---

Hardware Specifications

Network Interface

Speed	10/100 Mbps
Connector	8-pin RJ-45

Serial Interface

Serial Port	1 x RS-232/422/485 serial port
Connector	Mini-Din connector
Serial Port 1	RS-232/422/485, software selectable

Serial Communication Parameters

Baud Rate	1200 bps to 921 Kbps
Parity	None, Even, Odd, Mark, Space
Data Bit	7, 8
Stop Bit	1, 2 bits
Flow Control	None, RTS/CTS, XON/OFF

Physical

Housing	Metal
Weight	350g
Dimensions	81 mm (W) x 113 mm (H) x 24 mm (D)

Environmental

Operating Temperature	Regular: 0 to 60°C
Storage Temperature	-20 to 80°C (-4 to 176°F)
Operating Humidity	10%~80% RH (Non-condensing)

Power Requirements

Power Input	9~30VDC
Power Consumption	4.5W

Wireless LAN

Compliance	IEEE802.11g/b
Encryption	WEP 64/128 bit, WPA2-PSK
Modulation Type	CCK, DQPSK, DBPSK, OFDM
Transmission Rate	54 Mbps (Maximum)
Transmission Distance	300 meters
Topologies	Infrastructure, AD-Hoc

Technology Specifications

Protocols	TCP, UDP, HTTP, Telnet, IP
IP Addressing	DHCP, Static IP
Operation Mode	TCP/Server, TCP/Client, UDP mode, Paired connection mode
Virtual COM Mode	Supports Windows XP/2K/98
Configuration Mode	Web console Telnet Console Windows Utility

Regulatory Approvals

EMI	FCC Class A
EMS	EN6100-4-2
	EN6100-4-3
	EN6100-4-4
	EN6100-4-5
	EN6100-4-6
	EN6100-4-11
Safety	CE/EN60950
Shock	IEC60068-2-27

Vibration	IEC60068-2-6
Free Fall	IEC60068-2-32
Environmental	WEEE, RoHS
MTBF	350,000 hrs based on Mil-Hdbk-217F, GB
Warranty	5 years

Ordering Information

BMS-136WL	1-Port Wireless Serial Device Server
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